

Review of journals used for COAS publications.

The Task Force analyzed subscription costs for journals most often used by faculty from three OSU units (Chemistry, COAS, and Human Development and Family Sciences). For the period from 1994-2003 COAS faculty published most frequently in 42 journals. These included 20 commercial publishers, 20 professional journals, and *Science* and *Nature* that were put in a separate category. The resulting data base was used for a cost comparison for print subscriptions and evaluation of differences in impact factor. Costs for electronic subscriptions are even more convoluted (time period covered by electronic versions, permanent archiving, bundling of less important journals, etc.). Neither electronic subscriptions nor author costs (page charges and reprint costs) are covered here.

The collective cost to the library for these journals in 2004 was \$73,812. Commercial journals cost on average \$0.98 per page. Professional journals cost on average \$0.39 per page. Publication costs are similar for these journals so the difference in price per page reflects the larger net profit that commercial publishers are collecting for their products. *Science* and *Nature* cost only \$0.15 per page, but these two journals bring in a substantial amount of their revenue from advertisement.

Science and *Nature* are popular publishing venues due to their extremely high impact factors (mean = 30.38). *Science* is published by AAAS (a professional society) and *Nature* is published by the Nature Publishing Group (a commercial publisher). COAS authors published 33 papers in these two journals between 1994-2003. This represents 4% of the articles included in the data base.

The average impact factor for the other commercial journals was 1.796. The average impact factor for the professional society journals was 2.580. This indicates that the professional journals not only cost less per page (for library subscriptions) but also represent a significantly higher quality of scientific publication. COAS authors published 484 articles in professional society journals between 1994-2003. This represents 62% of the articles included in the data base.

The Task Force encourages faculty to publish in professional rather than commercial journals when they have a choice. We also encourage faculty to review for professional and to decline to review papers for commercial journals. Continued support of the professional society journals will help promote the sustainable pricing of scholarly publications for academic institutions.

COAS Journal name	Library Cost	Publisher	2003 IF	(94-03)		Cost Per Page
				2004 Pages Per Year	Times Published	
Commercial Journals						
Appl. Geochem.	\$1,140	Elsevier	1.804	1995	13	\$0.57
Atmosph. Environ.	\$5,707	Elsevier		7121	6	\$0.80
Chem. Geol.	\$3,817	Elsevier	2.330	4059	13	\$0.94
Cont. Shelf Res.	\$2,130	Elsevier	1.191	2551	11	\$0.84
Deep Sea Res. I	\$2,449	Elsevier		2169	19	\$1.13
Deep Sea Res. II	\$4,950	Elsevier		3101	37	\$1.60
Earth Planet. Sci. Lett.	\$3,774	Elsevier		6859	25	\$0.55
Fuel	\$2,910	Elsevier	1.167	2443	5	\$1.19
Geochim. Cosmochim. Acta	\$2,673	Elsevier		5204	23	\$0.51
J. Mar. Systems	\$2,319	Elsevier		2343	6	\$0.99
Mar. Chem.	\$2,143	Elsevier	2.555	2044	8	\$1.05
Marine Geology	\$3,738	Elsevier		3689	7	\$1.01
Org. Geochem.	\$3,028	Elsevier	1.712	1634	23	\$1.85
Progress in Oceanography	\$2,518	Elsevier		1166	15	\$2.16
J. Fluid Mech.	\$2,303	Cambridge Univ.	1.811	9284	6	\$0.25
Mar. Ecol. Prog. Ser.	\$4,691	InterResearch		5809	16	\$0.81
Boundary-Layer Meteorology	\$2,222	Kluwer		2218	13	\$1.00
Origins life Evolution Biosphere	\$598	Kluwer		346	5	\$1.73
J. Petrology	\$1,159	Oxford Univ.		2612	5	\$0.44
J. Plank. Res.	\$452	Oxford Univ.		1566	7	\$0.29
	\$54,720		1.796		263	\$0.99 Cost/Page
PROFESSIONAL SOCIETIES						
Environ. Sci. Technol.	\$1,507	ACS	3.592	1200	20	\$1.26
Geochem. Geophys. Geosystems	\$585	AGU		2885	8	\$0.20
Geophys. Res. Lett.	\$1,593	AGU	2.422	6520	40	\$0.24
Global Biogeochem. Cycles	\$596	AGU	2.338	1992	6	\$0.30
J. Geophys. Res.	\$6,782	AGU	2.992	31688	171	\$0.21
Paleoceanography	\$426	AGU	3.043	1440	22	\$0.30
J. Atmos. Ocean. Tech.	\$349	AMS	1.637	1945	29	\$0.18
J. Atmos. Sci.	\$730	AMS	2.641	3133	19	\$0.23
J. Climate.	\$622	AMS	3.617	4909	8	\$0.13
J. Phys. Oceanogr.	\$545	AMS	2.209	2856	62	\$0.19
Mon. Wea. Rev.	\$680	AMS		3077	17	\$0.22
Shore & Beach	\$51	ASBPA		164	9	\$0.31 estimated
Limnol. Oceanogr.	\$416	ASLO	3.329	2316	21	\$0.18
J. Coastal Res.	\$190	CERF	0.077	1252	9	\$0.15
IEEE Geosci.Remote Sensing	\$590	GRSS		2892	5	\$0.20
Geology	\$539	GSA	3.065	1072	11	\$0.50
Microb. Ecol.	\$1,015	ISME		1051	5	\$0.97
Applied Optics	\$2,754	OSA		6687	10	\$0.41
Mar. Mam. Sci.	\$123	SMM		900	5	\$0.14
Oceanography	\$810	TOS		552	7	\$1.47
	\$20,903		2.580		484	\$0.39 Cost/Page
Nature	\$1,292	Nature	30.979	5908	16	\$0.22
Science	\$635	AAAS	29.781	8428	17	\$0.08
	\$1,927		30.380			\$0.15 Cost/Page